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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/822,548	03/30/2001	Matthew D. Wood	42390P10451	7654

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EXAMINER

PYZOCHA, MICHAEL J

ART UNIT	PAPER NUMBER
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2137

DATE MAILED: 05/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	09/822,548		WOOD ET AL.	
	Examiner		Art Unit	
	Michael Pyzocha		2137	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 April 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5-9,17-20,25-27,29 and 30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-9,17-20,25-27,29 and 30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. Claims 1-3, 5-9, 17-20, 25-27, and 29-30 are pending.
2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/11/2006 has been entered.

Claim Objections

3. The claim objections have been withdrawn based on the filed amendment.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the

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art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-3, 5-9, 17-20, 25-27, and 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matyas, Jr. et al (US 6687375), in view of Chen et al (US 6182220), further in view of Hardy et al (US 6073242), and further in view of Menezes et al (Handbook of Applied Cryptography).

As per claims 1, 17 and 25, Matyas Jr. et al discloses initializing a pseudo-random number generator (PRNG); obtaining local seeding information from a host; obtaining additional seeding information from one or more sources; and stirring the PRNG with the local seeding information and the additional seeding information (see column 9 lines 19-34 and 45-67).

Matyas Jr. et al fails to disclose securely obtaining additional seeding information from one or more remote entropy servers.

However, Chen et al teaches obtaining seeding information from one or more remote entropy servers (see column 1 line 66 through column 2 line 9).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to obtain the additional seeding information of Matyas Jr. et al from the server of Chen et al.

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Motivation to do so would have been too update passwords on the server (see Chen et al column 4 lines 15-39).

The modified Matyas Jr. et al and Chen et al system fails to disclose the communication between host and server being secure.

However, Hardy et al teaches secure communications (see column 3 lines 54-67).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use Hardy et al's method of secure communications in the modified system of Matyas Jr. et al and Chen et al system.

Motivation to do so would have been to provide confidentiality, authentication and integrity to the communications (see column 3 lines 54-67).

The modified Matyas Jr. et al, Chen et al, and Hardy et al system fails to disclose the specific method of securely obtaining the keys, data and obtaining seeding information from each location.

However, Menezes et al teaches the key exchanging (see section 12.5.1), the use of temporary keys (see page 494), the use of a public key encryption scheme (see section 1.8.1) and obtaining a large amount of seeding information (see pages 170-171).

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At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the methods of Menezes et al to securely obtain the seeding information of the modified Matyas Jr. et al, Chen et al, and Hardy et al system.

Motivation to do so would have been to transport the key (see section 12.5.1), to limit the available ciphertext (see page 494), only the private key must be kept secret (see section 1.8.4) and seeds should be sufficiently large so that a search of all seeds is infeasible (see page 171).

As per claims 2-3 and 26-27, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the initializing the PRNG comprises initializing the internal state of the PRNG with a random value that is a seed (see Matyas Jr. et al column 9 lines 19-34).

As per claims 5 and 29, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the one or more remote entropy servers maintain random state pool to supply the host with the random value (see Matyas Jr. et al column 9 lines 45-67).

As per claim 6-8, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the securely obtaining seeding information from the one or more remote entropy servers may include using a privacy protocol, wherein

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the privacy protocol comprises secure sockets layer (SSL) protocol and transport layer security (TLS) protocol (see Hardy et al column 3 lines 54-67).

As per claims 9 and 30, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the stirring the PRNG comprises producing a cryptographically random stream of bits (see Matyas Jr. et al column 9 lines 45-67).

As per claim 18, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the local system generates local seeding information (see Matyas Jr. et al column 9 lines 45-67).

As per claim 19, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the one or more remote systems generate remote seeding information (see Chen et al column 1 line 66 through column 2 line 9).

As per claim 20, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system the entropy servers are hardware or software (see Chen et al column 4 lines 40-54).

Response to Arguments

6. Applicant's arguments with respect to claims 1-3, 5-9, 17-20, 25-27, and 29-30 have been considered but are moot in view of the new ground(s) of rejection.

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7. Examiner also brings to Applicant's attention the rejection made on, for example claim 1, in the action mailed 09/21/2005 in view of AASAA, which also discloses a method for obtaining information from each redundant server.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Pyzocha whose telephone number is (571) 272-3875. The examiner can normally be reached on 7:00am - 4:30pm first Fridays of the bi-week off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJP


EMMANUEL L. MOISE
SUPERVISORY PATENT EXAMINER